



10507000 - GAU: 1612

PTO/SB/08A & PTO/SB/08B (10-01)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number 10/507,000	
(use as many sheets as necessary)		Filing Date January 24, 2005	
Sheet 1 of 5		First Named Inventor Phytopharm PLC	
		Art Unit Not Yet Assigned	
		Examiner Name Not Yet Assigned	
		Attorney Docket Number 8617/92773	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number - Kind Code‡ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	3,836,527			
	2	3,890,438			
	3	3,956,491			
	4	4,482,706			
	5	4,546,097			
	6	4,562,250			
	7	4,602,003			
	8	4,602,005			
	9	4,680,289			
	10	4,800,080			
	11	5,002,939			
	12	5,017,562			
	13	5,244,887			
	14	5,589,182			
	15	5,629,295			
	16	5,698,526			
	17	5,703,052			
	18	5,760,009			
	19	5,763,430			
	20	5,792,635			
	21	5,795,885			
	22	5,804,239			
	23	5,804,562			
	24	5,807,834			
	25	5,840,740			
	26	5,840,936			
	27	5,847,172			
	28	5,856,535			
	29	5,939,398			
	30	5,958,770			
	31	6,046,184			
	32	6,143,738			
	33	6,150,336			

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	34	6,258,386			
	35	2001/0024666 A			
	36	2001/0026814 A1			
	37	2001/0029248 A1			
	38	2001/0043955 A1			
	39	6,593,301			
	40	6,812,213			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Paragraphs or Relevant Figures Appear	TS
		Country Code-Number-Kind Code ² (if known)				
	41	GB852847				
	42	GB2097672				
	43	EP0054570				
	44	JP58-049314				
	45	JP 62-234025				
	46	JP 02-188528				
	47	JP 02-243631				
	48	WO 91/10743				
	49	EP 0442744				
	50	WO 91/11452				
	51	WO 92/13873				
	52	JP 05-246866				
	53	DE 4303214 A1				
	54	WO 94/18994				
	55	CN 1096031A				
	56	WO 94/25017				
	57	CN 1092991A				
	58	CN 1092992A				
	59	CN 1102186A				
	60	WO 95/30341				
	61	WO 96/04296A1				
	62	EP 1 020 477 A1				
	63	JP 09-100295				
	64	FR 2 743 561				

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

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65	WO 97/13780				
66	WO 97/31933				
67	WO 98/51302				
68	WO 98/03180				
69	WO 98/58650				
70	WO 98/58543				
71	WO 99/09837				
72	WO 99/16449				
73	WO 99/48482				
74	GB 2 335 599 B				
75	WO 99/48507				
76	WO 99/16786				
77	CN 1212966 A				
78	EP 1 024 146 A1				
79	WO 00/61153				
80	GB 2 347 676 A				
81	WO 01/23408 A1				
82	WO 01/23407 A1				
83	WO 01/23406 A1				
84	WO 01/49703 A2				
85	WO 02/079221				
86	WO 03/082893				
87	WO 2004/037845				

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	88	Guseinov D and Iskenderov GB, "Chemical composition and biological value of saponins of some plants of Azerbaizhan" Azerb. Med. Inst., Baku, USSR (1972)	
	89	Vich Ranova, S. A. et al., "Antiviral activity of some saponins" Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Lekarsvennykh Rastenii (1971), 14, 204-12, CAPLUS-Referat 1973: 155 107, recherchiert bei STN am 06.02.04	
	90	Blunden G, Yi Y and Jewers K, "Steroidal Sapogenins from Leaves of Agaveae Species" Sch. Pharm., Portsmouth Polytech., UK (1979)	

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91	Irismetov MP, Goryaev MI, Bazalitskaya VS and Kaigralieva AK, "Modified steroids. XVI. Study of the Leuckart reaction in a series of steroid compounds of solasodine and diosgenin" Inst. Khim. Nauk, Alma-Ata, USSR (1980)
92	6001 Chemical Abstracts, Columbus, Ohio US, Vol. 97 16-08-1982 No. 7 [full reference: Vopr. Med. Khim. (1982), 28(3), 101-5 (Russ)]
93	Chakravarty AK, Das B, Pakrashi SC, "Juripidine A 3 Amino Steroidal Alkaloid from Roots of Solanum-Hispidium" Phytochemistry (Oxford) (1983), pp 2843-2846
94	Schwartz RD, Lehmann J, Kellar KJ, "Presynaptic Nicotinic Cholinergic Receptors Labeled by [³ H]Acetylcholine on Catecholamine and Serotonin Axons in Brain" Journal of Neurochemistry, New York (1984), pp 1495-1498
95	Nakashima, H. et al.: Inhibitory effect of glycosides like saponin from soybean on the infectivity of HIV in vitro. AIDS 3 10 (1989) 655-658 (MEDLINE-Referat 90088859, recherchiert bei STN am 06.02.04)
96	Wang S-Z, Hu J, Long RM, Pou WS, Forray C, and El-Fakahany EE, "Agonist-induced down-regulation of m1 muscarinic receptors and reduction of their mRNA level in a transfected cell line" Federation of European Biochemical Societies Letters vol. 276, no. 1,2 (1990) pp 185-188
97	Ding Y, Yi N, Wang Y, Dai X, Xia Z, "Study on the "Yin-tonic" component of the Chinese herb Zhimu: Sarsasapogenin" Hejishu (1991), 14 (5), 262-5
98	Coll PF, Rodriguez ML, Perez C, Adam G, "Steroidal compounds of Solanum antillarum O. F. Schulz. II" Rev. Cubana Quim. (1992), 6(2), 66-71
99	Fukamauchi F, Saunders PA, Hough C, and Chuang D, "Agonist-Induced Down-Regulation and Antagonist-Induced Up-Regulation of m2- and m3- Muscarinic Acetylcholine Receptor mRNA and Protein in Cultured Cerebellar Granule Cells" Molecular Pharmacology (1993) pp 940-949
100	He L, Hu Y, Yi N, Xia Z, "The mechanism of the regulatory action of sarsasapogenin on brain M-receptors in aged mice", Shanghai Dier Yike Daxue Xuebao 16 (5) (1996) pp 346-349
101	Hu Y, Yi N, He L, et al, "An autoradiographic study on the regional distribution of brain M-cholinergic receptors in aged rats", (1996) Chinese Journal of Gerontology, vol. 15(2)
102	Lorizzi M, DeMarino S, Minale L, Zollo F, LeBert V, Roussakis C, "Investigation of the polar steroids from an Antarctic Starfish of the family Echinasteridae: isolation of twenty seven polyhydroxysteroids and steroidal oligoglycosides, structures and biological activities.", Tetrahedron Letters vol. 52, no. 33 (1996) pp 10997-11012
103	DeNinno MP, McCarthy KE, "The ¹⁴ C Radiolabelled Synthesis of the Cholesterol Absorption Inhibitor CP-148, 623. A Novel Method for the Incorporation of a ¹⁴ C Label in Enones", Tetrahedron Letters vol. 53, no. 32 (1997) pp 11007-11020

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104	Yi N, Hu Y, Xia Z, "Sarsasapogenin: Mechanism in Treating Senile Dementia", <i>Synthesis and Applications of Isotopically Labelled Compounds</i> (1997) pp 315-320
105	Yi N, Hu Y, Xia Z, "The Mechanism of a Sapogenin from <i>Anemarrhenae Asphodeloides</i> BGE in the Treatment of Senile Dementia", Collection of Abstract prepared for the 6 th International Symposium of the International Isotope Society, Philadelphia, 14-18 September 1997, p103
106	DeNinno P, McCarthy PA, Duplantier KC, Eller C, et al, "Steroidal Glycoside Cholesterol Absorption Inhibitors", <i>Journal of Medicinal Chemistry</i> (1997) vol. 40, pp 2547-2554
107	Chang ZL, Puhl HL, May LG, Williams CL, and Aronstam RS, "Influence of Acute and Chronic Ethanol Treatment on Muscarinic Responses and Receptor Expression in Chinese Hamster Ovary Cells", <i>Biochem. Pharmacol.</i> vol. 54,7 pp 834-839 (1997)
108	Kinoshita K, Akiba M, Saitoh M, Ye Y, Koyama K, Takahashi K, Kondo N, and Yuasa H, "Antinociceptive Effect of Triterpenes from Cacti", <i>Pharmaceutical Biology</i> vol. 36, no. 1 (1998) pp 50-57.
109	Fukamauchi F, Wang Y-J, Chuang D-M, "Ethanol Induces Subtype-Specific Up-Regulation of Muscarinic Acetylcholine Receptor mRNA in Neurohybrid Cell Lines", <i>Life Sciences</i> , vol. 62, no. 5 (1997) pp 389-396
110	Rahman, A-U, Choudhary MI, Asif F, Farooq A, Yaqoob M, and Dar A, "Microbial Transformation of Sarsasapogenin by <i>Fusarium Lini</i> ", <i>Phytochemistry</i> vol. 49, no. 8 (1998) pp 2341-2342
111	Sramek JJ, Forrest M, Mengel H, Jhee SS, Hourani J, and Cutler NR, "A Bridging Study of Lu 25-109 in Patients with Probable Alzheimer's Disease", <i>Life Sciences</i> vol. 62, no. 3 (1998) pp 195-202
112	Shi, J., <i>et al.</i> : 'The regulation effect of sarsasapogenin on M2 receptor density in CHO M2 cell' <i>Acta Universitatis Medicinalis Secundae Shanghai</i> 20 no. 6 (2000), 503-505
113	Yi Ningyu <i>et al.</i> : 'Extraction of .beta.-adrenergic receptor- and M cholinergic receptor-regulating (.beta.-, .gamma.-, .delta.-)spirostan-3-ol from <i>Anemarrhena asphodeloides</i> Bunge' Abstract XP002168420

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